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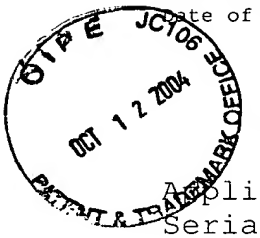

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Christopher M. Dobson
Serial No.:	09/787,560
Filed:	June 4, 2001
For:	FIBRILS
Examiner:	Christopher J. Nichols
Art Unit:	1647

Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Attn: Mail Stop Amendment

Dear Sir:

Amendment

In response to the Office Action mailed April 5, 2004 in the above described case, Applicant hereby submits the following amendment and remarks:

1. Pages 2-4 of this document contain the claims as amended hereby.

2. Pages 5-11 contain remarks describing the nature of the amendment and why Applicant believes that the amendment overcomes the pending rejections.

Please amend the claims so that the set of claims is summarized as follows:

1-37 (canceled)

--38. (currently amended) A process for preparing an amyloid fibril, which process comprises:

a first step of preparing a solution comprising a protein, said solution being in a state so that nucleation and ~~fibril~~ growth of a non-naturally occurring fibril can ~~will~~ occur, and

a second step of allowing nucleation and ~~fibril~~ growth of the non-naturally occurring fibril to take place~~;~~

~~wherein a non-naturally occurring amyloid fibril is prepared by said process~~.

39. (original) A process according to claim 38 wherein the solution further comprises an alcohol.

40. (original) A process according to claim 38 wherein the solution further comprises alcohol selected from methanol, ethanol, propanol, butanol, trifluoroethanol and hexafluoroisopropanol.

41. (original) A process according to claim 38 wherein the solution further comprises acetonitrile.

42. (original) A process according to claim 38 wherein the solution further comprises urea.

43. (original) A process according to claim 38 wherein the concentration of protein in the solution is from 0.1 mM to 10 mM.

44. (original) A process according to claim 38 wherein the temperature of the solution is from 0°C to 100°C.

45. (original) A process according to claim 38 wherein the solution is acidic.

46. (original) A process according to claim 38 wherein the pH of the solution is from 0.5 to 6.5.

47. (original) A process according to claim 38 wherein the solution is seeded with previously formed particles of protein.

48. (canceled)

49. (original) A process according to claim 38 wherein the non-naturally occurring amyloid fibril prepared by said process comprises a metal.

50. (original) A process according to claim 49 wherein the metal is selected from the group consisting of copper, silver and gold.

51-53 (canceled)

54. (previously presented) A process according to claim 38, wherein said solution is treated to denature or partially denature the protein.

55. (previously presented) A process according to claim 54, wherein said denaturing is effected by treatment with an alcohol, aliphatic nitrile or urea, reducing the pH, or by shaking, agitation or exposure to a glass or plastic surface.

56. (previously presented) A process according to claim 38, wherein the solution further comprises an alcohol at 5 to 40% v/v.

57. (previously presented) A process according to claim 38, wherein the solution further comprises an aliphatic nitrile at 5 to 95% v/v.

58. (previously presented) A process according to claim 38, wherein the solution further comprises urea at 4 to 7 M.

59. (previously presented) A process according to claim 38, wherein nucleation is achieved by varying the pH and/or ionic strength of the solution.

60. (previously presented) A process for preparing an amyloid fibril, which process comprises:

preparing a solution comprising a protein, said solution being in a state so that nucleation and fibril growth will occur, wherein the pH of the solution is from 0.5 to 6.5, the

temperature of the solution is from 0°C to 100°C, and wherein the solution optionally also comprises an additive selected from the group consisting of an alcohol at 5 to 40% v/v, an aliphatic nitrile at 5 to 95% v/v and urea at 4 to 7 M; and

allowing nucleation and fibril growth to take place;

wherein a non-naturally occurring amyloid fibril is prepared by said process.